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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/886,659	06/21/2001	David A. Brown	42923/905	4746	
3528 STOEL RIVES	7590 03/21/201 LLP - PDX	1	EXAMINER		
900 SW FIFTH			SHINGLES, KRISTIE D		
SUITE 2600 PORTLAND, O	OR 97204-1268		ART UNIT	PAPER NUMBER	
			2448		
			MAIL DATE	DELIVERY MODE	
			03/21/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

SUP	PLE	EME	NT	AL	
Notice	of.	Allo	wa	bili	ty

Application No.		Applicant(s)	
	09/886,659	BROWN, DAVID A.	
	Examiner	Art Unit	
	KRISTIE D. SHINGLES	2448	

	KRISTIE D. SHINGLES	2448			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. X This communication is responsive to 1/24/2011.					
2. 🔀 The allowed claim(s) is/are <u>26-56</u> .					
3.	been received. been received in Application No. cuments have been received in this of this communication to file a rep ENT of this application. tted. Note the attached EXAMINE s reason(s) why the oath or declar t be submitted. on's Patent Drawing Review (PTo Amendment / Comment or in the	s national stage applicates an according to the results of the res	quirements IOTICE OF		
each sheet. Replacement sheet(s) should be labeled as such in the first DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL	must be submitted.	Note the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1/24/2011 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /Kristie D. Shingles/ Primary Examiner, Art Unit 2448	5. ☐ Notice of Informal 6. ☐ Interview Summa Paper No./Mail □ 7. ☒ Examiner's Amen 8. ☒ Examiner's Stater 9. ☐ Other	y (PTO-413), ate dment/Comment	owance		
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DETAILED ACTION

Response to Amendments

Claims 1-25 have been cancelled.
Claims 27-31, 33-37, 39-43 and 45-49 have been amended.
Claims 50-56 have been newly added.
Claims 26-56 are pending.

Per Examiner's Amendments

Claims 32 and 38 have been amended.

Claims 26-56 are allowed.

Response to Arguments

I. In view of Applicant's arguments (see Remarks pages 9-10 filed 10/21/2010) with respect to claims 26-49, the arguments have been fully considered and are persuasive. The finality and rejections of the above claims has therefore been withdrawn.

Information Disclosure Statement

II. The information disclosure statement (IDS) submitted on 1/24/2011 was filed after the mailing date of the Notice of Allowance on 1/6/2011. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

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Terminal Disclaimer

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III. The terminal disclaimer filed on 3/7/2010 disclaiming the terminal portion of any patent

granted on this application has been reviewed and is approved. The terminal disclaimer has been

recorded.

Examiner's Amendment

IV. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Matthew Philips on 12/18/2010.

Claim 32 (Amended). An apparatus comprising:

a memory storing data;

a forwarding engine configured to search the data for a first initial search result using at

least a first portion of a first key, wherein the forwarding engine is configured to return a route

index if the first initial search result is a route index corresponding to the first key, and wherein

the forwarding engine is configured to perform an iterative search if the first initial search result

is a subtree index, wherein the iterative search comprises: searching the data for an iterative

search result based on a subsequent key comprising the subtree index found in a preceding search

and at least a next portion of the first key; and if the iterative search result is a route index

corresponding to the first key, then returning the route index; and if the iterative search result is a subtree index, then performing the iterative search again.

Claim 38 (Amended). An apparatus comprising:

a memory storing data;

means for searching the data for a first initial search result using at least a first portion of a first key, wherein said means is configured to return a route index if the first initial search result is a route index corresponding to the first key, and wherein said means is configured to perform an iterative search if the first initial search result is a subtree index, wherein the iterative search comprises: searching the data for an iterative search result based on a subsequent key comprising the subtree index found in a preceding search and at least a next portion of the first key; and if the iterative search result is a route index corresponding to the first key, then returning the route index; and if the iterative search result is a subtree index, then performing the iterative search again.

Reasons for Allowance

V. This communication warrants no Examiner's reason for allowance, as Applicant's reply filed on 12/2/2009 and 10/21/2010 filed makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104 (e). In this case, the substance of Applicant's comments in the Remarks filed on 12/2/2009 and 10/21/2010 with respect to the claimed limitations of "searching...for an iterative search result using a subsequent key comprising the subtree index found in a preceding search...and at least a next portion of a first key" sufficiently present the reasons claims are patentable over the prior art of record. Thus, the reason for

allowance is in all probability evident from the record and no statement of an Examiner's reason for allowance is necessary (see MPEP 13202.14).

The claimed invention, as supported by pages in the Specification, is not specifically disclosed or remotely suggested in the prior art of record. A review of Claims 26-56 in view of the Examiner's remarks above, indicates that Claims 26-56 are allowable over the prior art of record.

VI. Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

VII. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KRISTIE D. SHINGLES whose telephone number is (571)272-3888. The examiner can normally be reached on Monday-Friday 9:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kristie D. Shingles/

Primary Examiner, Art Unit 2448